33rd PLANT DEVELOPMENT WORKSHOP

Program & List of Contributors

October 16th, 1999

Department of Botany
University of Guelph

Cover Design: Deborah Komlos, Dept. of Botany, U. of G.

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8:00 – 9:00 a.m. **Registration**, foyer of Axelrod Building.
A light continental breakfast will be served.

9:00 – 9:10 a.m. **Welcome and Announcements.**

9:10 – 10:30 a.m. **ORAL PRESENTATIONS**, Axelrod Building, Room 100.

9:10 – 9:30 a.m. *Seago*, **James L. Jr.**
Department of Biology, State University of New York.
Developmental and structural studies on roots of wetland plants.

9:30 – 9:50 a.m. *Lecha*, **Hannah, and** *Posluszny*, **Usher.**
Department of Botany, University of Guelph.
Developmental morphology and anatomy of Asparagus falcatus (Asparagaceae).

9:50 – 10:10 a.m. *Lott*, **John N.A.,** *Ockenden*, **Irene,** *Raboy*, **Victor, and** *Batten*, **Graeme D.**
Department of Biology, McMaster University.
A global estimate of the phytic acid and phosphorus in crop seeds and fruits.

10:10 – 10:40 a.m. **Coffee Break.**

10:40 – 11:00 a.m. *Taylor*, **Jeff.**
Department of Biology, University of Waterloo.
The internal perfusion technique: a method for assessing surface permeability.

11:00 – 11:45 a.m. ***GUEST SPEAKER:***
Professor Ernst Steudle.
University of Bayreuth, Germany.
Water transport across roots: an integration of views.

11:45 – 1:30 p.m. **Lunch,** on your own (University Centre; Gryphs Lounge).
POSTER PRESENTATIONS, Axelrod Building, Room 265A.

1:30 – 2:55 p.m. **ORAL PRESENTATIONS,** Axelrod Building, Room 100.

1:30 – 2:15 p.m. ***GUEST SPEAKER:***
Dr. Lukas Schreiber.
University of Werzburg, Germany.
Lignin and suberin composition in endodermal and hypodermal/ rhizodermal cell walls of developing maize primary roots.

2:15 – 2:35 p.m. ***Prakash*, E.**
Biotechnology Research Centre, Tirupati, India.
Strategies for conservation of an endemic medicinal species Viz. Pimpinella tirupatiensis through biotechnology.

2:35 – 2:55 p.m. ***Peterson*, R. Larry.**
Department of Botany, University of Guelph.
Alterations in the sub-cellular organization of plant cells in response to mycorrhizal fungi.

2:55 – 3:00 p.m. **Business Meeting,** Axelrod Building, Room 265A.

3:00 p.m. - **POSTER PRESENTATIONS and Social,** Axelrod Building, Room 265A.

POSTER PRESENTATION TITLES:

***Bewley*, J. Derek, *Banik*, Mitali, and *Bourgault*, Richard.**
Department of Botany, University of Guelph.
Cell-wall associated endo-beta-mannanase in the skin and outer pericarp of ripening tomato fruits.

***Bourgault*, Richard, *Bewley*, J. Derek, and *Banik*, Mitali.**
Department of Botany, University of Guelph.
Endo-beta mannanase is a high-salt-soluble enzyme located in the outer tissue of tomato fruits.

***Deckert*, Ron, and *Peterson*, R. Larry.**
Department of Botany, University of Guelph.
Needle senescence in Pinus strobus L. (white pine) and observed concurrent changes in host anatomy and activity of resident fungal endophytes.

***Geil*, Ryan D., *Peterson*, R. Larry, and *Guinel*, Frédérique C.**
Department of Botany, University of Guelph.
Exogenous ethylene alters the morphology of arbuscular mycorrhiza in pea.

Greenwood, John S., Yu, Wenjin, and Rogers, Amanda.
Department of Botany, University of Guelph.
A cysteine proteinase involved in programmed cell death in Vicia faba.

Kang, Julie.
Department of Botany, University of Toronto.
Anatomical characterization of the Arabidopsis mutant Phabulosa.

Komlos, Deborah A., Klironomos, John N., and Posluszny, Usher.
Department of Botany, University of Guelph.
Life-history characteristics of Chamerion angustifolium as influenced by arbuscular mycorrhizal fungi.

Mihajlovic, Nela, and Grbic, Vojislava.
Department of Plant Sciences, University of Western Ontario.
Axillary meristem development in Arabidopsis thaliana.

Ockenden, Irene, West, Marcia, Domingues, Jon, and Lott, John N.A.
Department of Biology, McMaster University.
Changes in the element composition of globoids in developing Cucurbita seeds.

Reid, Alexandra, Rogers, Mandi, and Greenwood, John S.
Department of Botany, University of Guelph.
A method for plastic embedding of specimens following whole mount in situ hybridization and colourimetric detection.

Sarkar, Sunita, Perras, Michel R., Falk, Duane O., and Fletcher, R. Austin.
Department of Environmental Biology, University of Guelph.
Enhancing stress tolerance in barley by regulating gibberellin levels.

Soros [1], Connie L., and Bruhl [2], Jeremy J.
[1] Department of Botany, University of Toronto.
[2] Division of Botany, University of New England, Australia.
Multiple evolutionary origins of C4 photosynthesis in the Cyperaceae and comparisons with the Poaceae.

Stevens, Kevin, Peterson, R. Larry, and Reader, Richard.
Department of Botany, University of Guelph.
Aerenchyma, adventitious roots and arbuscular mycorrhiza; their role in flood tolerance of Lythrum salicaria.

Stone, Sophia L., Arnoldo, M., Gu, T., and Gorring, D.
Department of Biology, York University
Characterization of ARC1 transgenic plants.